App No.: Not Yet Assigned Docket No.: HTS-0350 Inventor: Thomas G. Kenny, et al.
Title: METHOD FOR CALCULATING AND DISPLAYING THE ISOTHERMAL CONTOURS PRODUCED BY A LASER

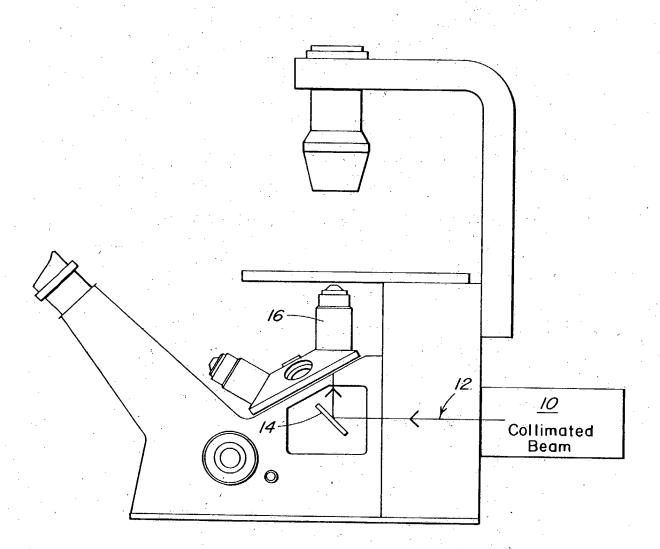
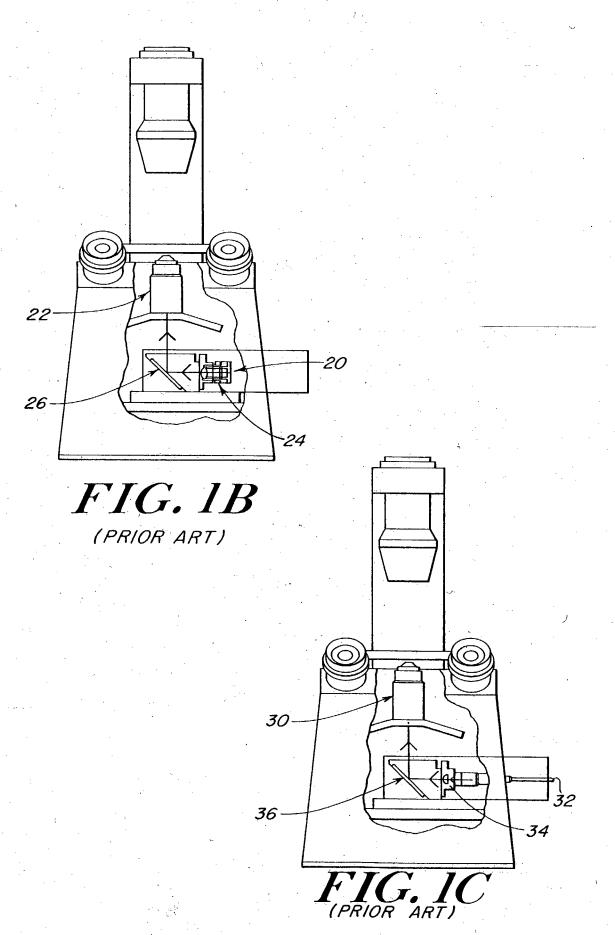


FIG. IA

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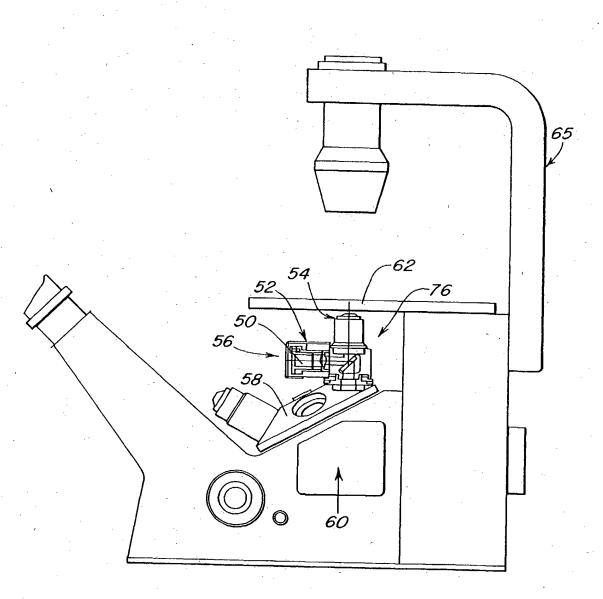


FIG. 2A

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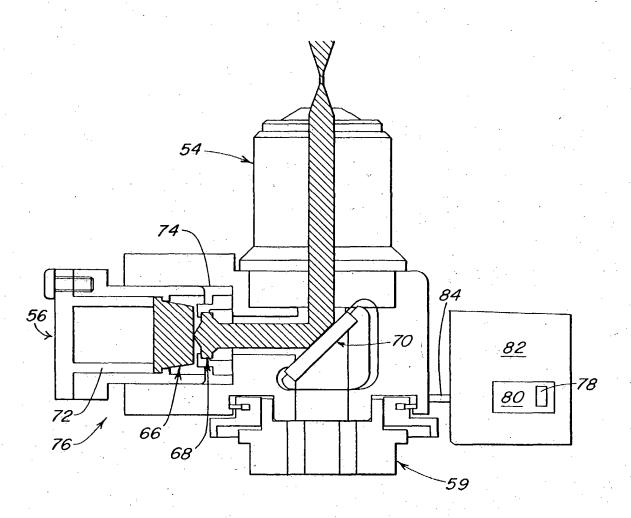


FIG. 2B

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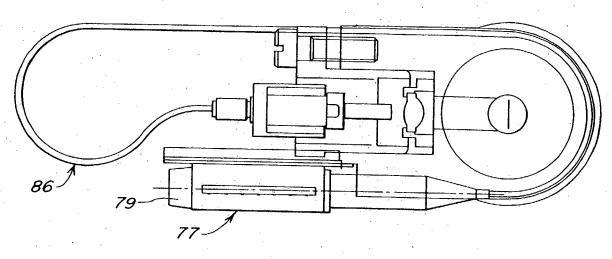


FIG. 3A

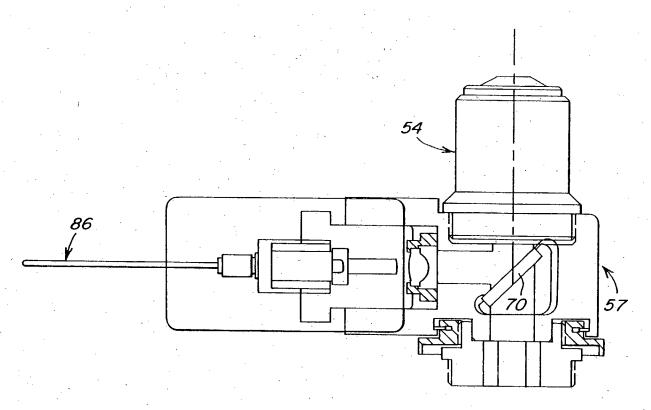
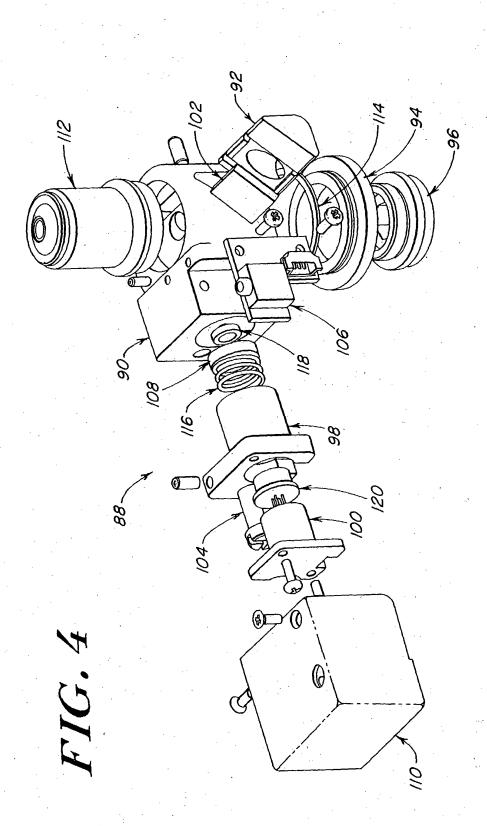


FIG. 3B

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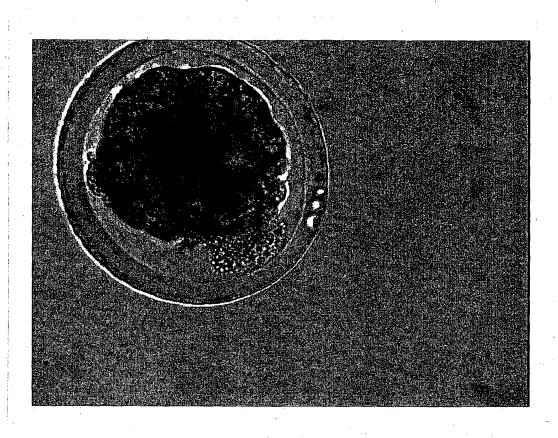


FIG. 8

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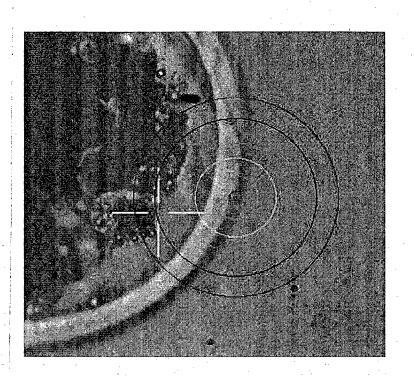


FIG. 7

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Inventor: Thomas G. Kenny, et al.

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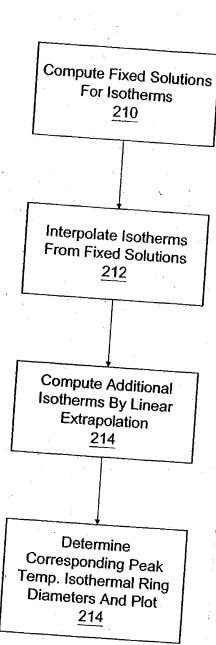


FIG. 6

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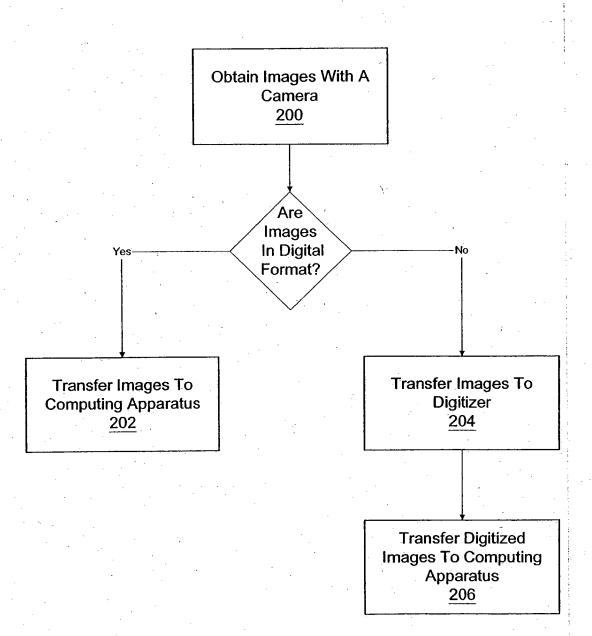


FIG. 5

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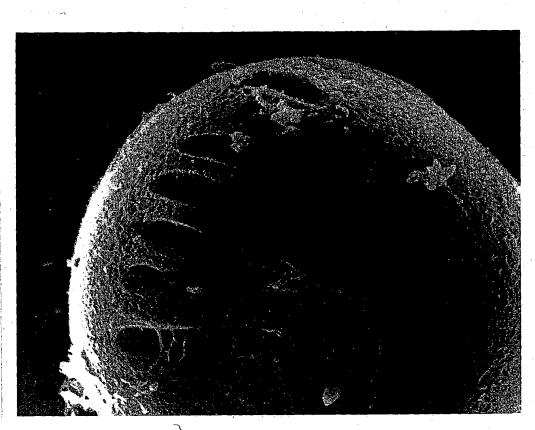


FIG. 9A

App No.: Not Yet Assigned Docket No.: HTS-035DV Inventor: Thomas G. Kenny, et al. Title: METHOD FOR CALCULATING AND DISPLAYING THE ISOTHERMAL CONTOURS PRODUCED BY A LASER

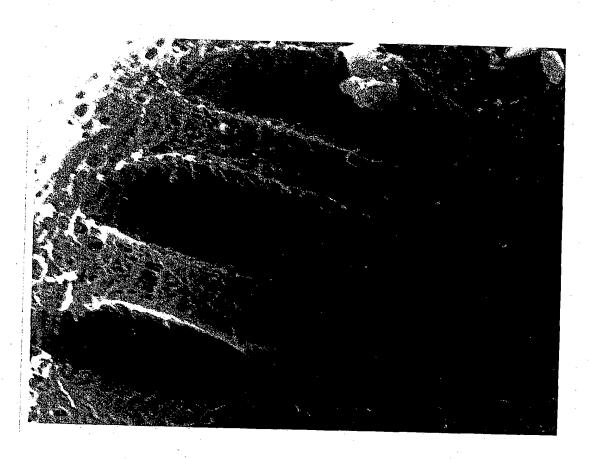


FIG. 9B

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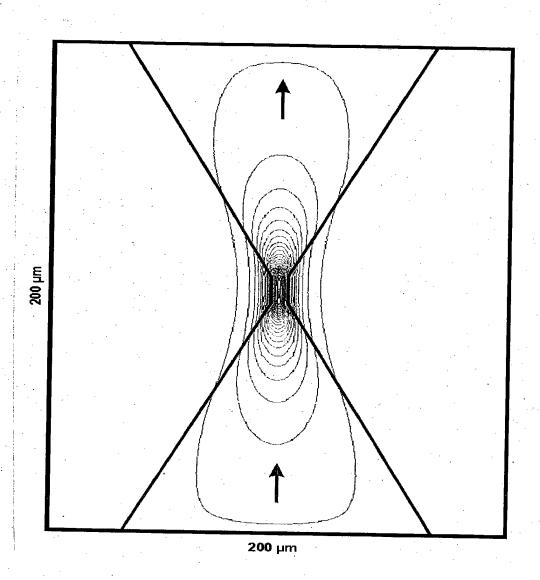


FIG. 10A

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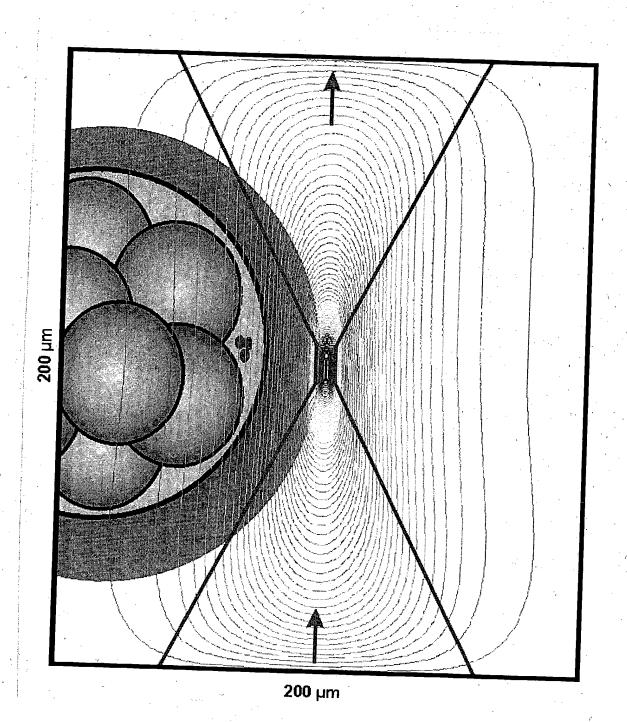


FIG. 10B

App No.: Not Yet Assigned Docket No.: HTS-0350 Inventor: Thomas G. Kenny, et al. Title: METHOD FOR CALCULATING AND DISPLAYING THE ISOTHERMAL CONTOURS PRODUCED BY A LASER

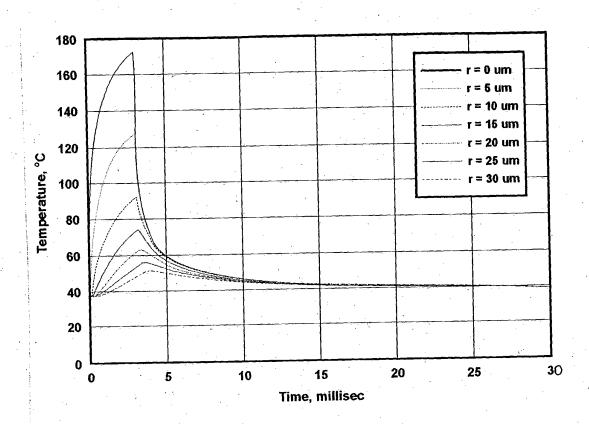


FIG. 11

App No.: Not Yet Assigned Docket No.: HTS-0356 Inventor: Thomas G. Kenny, et al.
Title: METHOD FOR CALCULATING AND DISPLAYING THE ISOTHERMAL CONTOURS PRODUCED BY A LASER

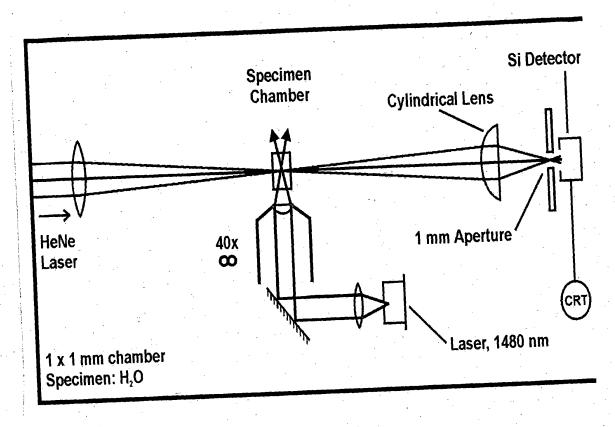


FIG. 12

App No.: Not Yet Assigned Docket No.: HTS-0350 Inventor: Thomas G. Kenny, et al. Title: METHOD FOR CALCULATING AND DISPLAYING THE ISOTHERMAL CONTOURS PRODUCED BY A LASER

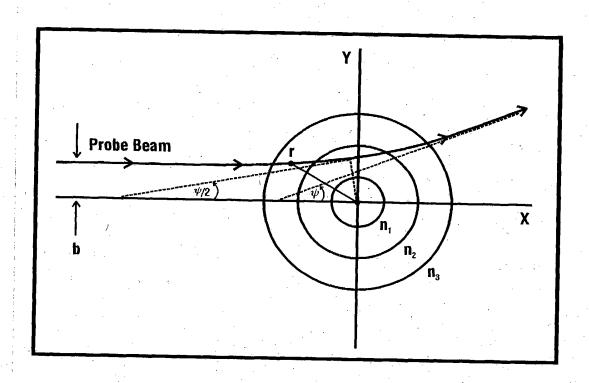


FIG. 13

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Exptl and predicted max, steering angle of probe beam, vs delivered beam power in water.

Pulse duration 1 - 25 ms. Beam radius 3 micron.

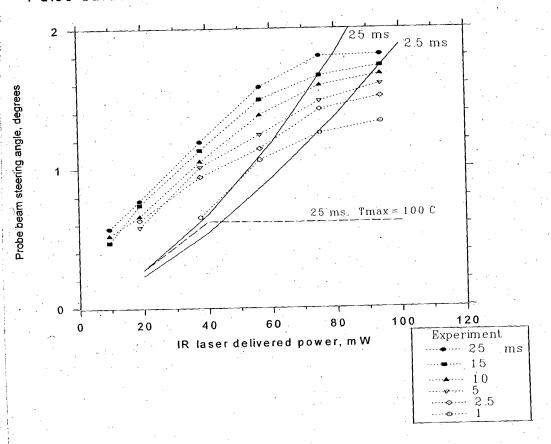
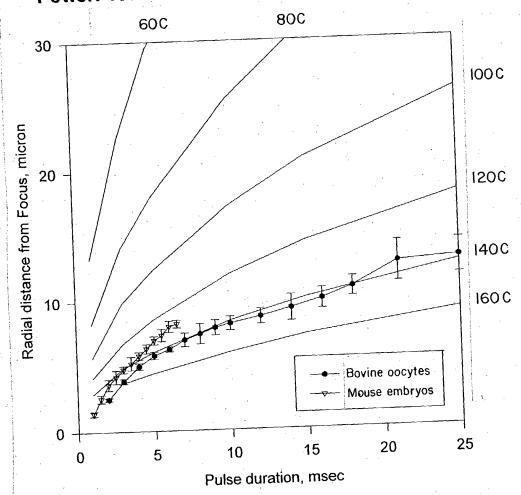


FIG. 14

Title: METHOD FOR CALCULATING AND DISPLAYING THE ISOTHERMAL CONTOURS PRODUCED BY A LASER

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ZP Drilled Trench Diameter vs Peak temperature for various pulse length, radial position. Power: 100 mW. Beam focal radius: 3 micron



- 3 Bovine oocytes
- 2 Mouse Embryos

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Temperature at radius 20 micron vs Pulse Duration, various Powers. Beam radius 3 micron.

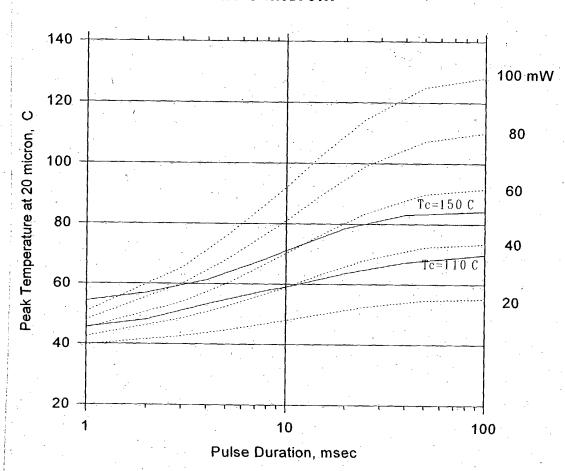


FIG. 16